



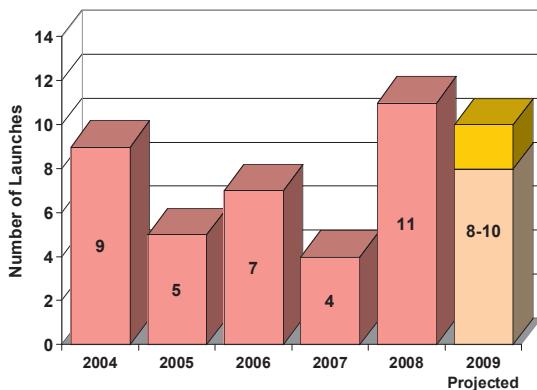
ELEVEN FAA-LICENSED ORBITAL LAUNCHES AND FIVE PERMITTED FLIGHTS IN 2008

In 2008 the Federal Aviation Administration's Office of Commercial Space Transportation (FAA/AST) licensed 11 orbital launches valued at approximately \$640 million. Ten of the launches were successful and one launch failed. These launches include:

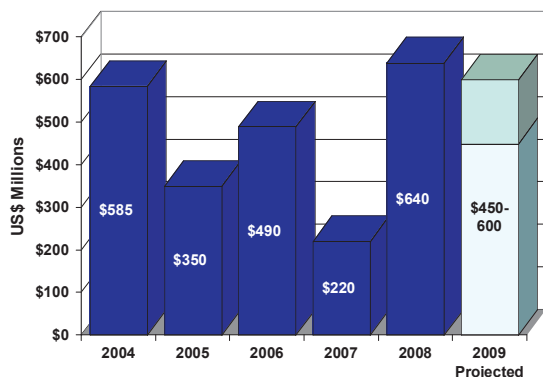
- Five Zenit-3SL launches carrying five commercial payloads to geosynchronous orbit (GSO);
- Two Delta II launches of remote sensing payloads to low Earth orbit (LEO);
- Two Falcon 1 launches of demonstration payloads to LEO, one of which failed;
- One Atlas V launch of a commercial payload to GSO; and
- One FAA-licensed Pegasus XL launch of a government payload to LEO.

Five flights under FAA experimental permits were conducted in 2008, compared to nine in 2007.

FAA-Licensed Commercial Orbital Launches

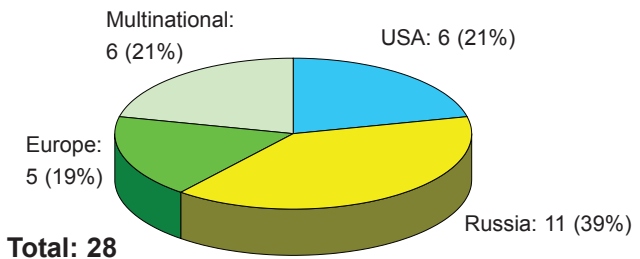


FAA-Licensed Commercial Orbital Launch Revenues



WORLDWIDE ORBITAL COMMERCIAL LAUNCH MARKET SHARE FOR 2008

Russia led the market with 11 launches in 2008, a 39 percent market share. This was a slight decrease compared to the 12 launches that took place in 2007. Europe's share decreased from 26 percent in 2007 to 19 percent in 2008, similar to its percentage in 2005 and 2006. The United States' share increased from 13 to 21 percent between 2007 and 2008. Sea Launch returned to flight in 2008, conducting five launches and also debuted the Land Launch system for a total 21 percent market share.



FIVE-YEAR ORBITAL COMMERCIAL LAUNCH TRENDS WORLDWIDE

Twenty-eight commercial orbital launches occurred in 2008, which is above the average number of 21 launches per year for the past five years. Non-geosynchronous orbit (NGSO) launches worldwide remained strong, but launches to geosynchronous orbit recovered in 2008 and outpaced NGSO launches 18 to 10. During the 2004-2008 period, there was an average of over 15 commercial launches per year to GSO and an average of 6 per year to NGSO.

FAA-LICENSED VEHICLES LAUNCHED IN 2008

	United States				Multinational
Vehicle	Delta II	Pegasus XL	Falcon 1	Atlas V	Zenit-3SL
2008 Total Launches	5	2	2	2	5
2008 Licensed Launches	2	1	2	1	5
Launch Reliability (2008)	5/5 (100%)	2/2 (100%)	1/2 (50%)	2/2 (100%)	5/5 (100%)
Launch Reliability (Last 10 Years)	62/62 (100%)	13/13 (100%)	1/4 (25%)	14/14 (100%)	28/30 (93%)
LEO kg (lbs)	6,100 (13,440)	443 (977)	454 (1,000)	20,520 (45,240)	15,246 (33,541)
GTO kg (lbs)	2,170 (4,790)	--	--	8,670 (19,110)	6,100 (13,440)



WORLDWIDE COMMERCIAL LAUNCH EVENTS IN 2008

Date	Vehicle	Site	Payload(s)	Operator	Manufacturer	Use	L	M
United States								
4/14/2008	V Atlas V 421	Cape Canaveral	* ICO G1	ICO Global Communications	Space Systems/Loral	Communications	S	S
4/16/2008	V Pegasus XL	Kwajalein Island	C/NOFS	U.S. Air Force	Spectrum Astro, Inc.	Scientific	S	S
8/3/2008	V Falcon 1	Kwajalein Island	* Celestis 6 Jumpstart NanoSail-D PRESat	Celestis, Inc. ORS Office NASA NASA	Celestis, Inc. SpaceDev, Inc. NASA NASA	Other Development Scientific Scientific	F F F F	F F F F
9/6/2008	V Delta II 7420-10	Vandenberg	* GeoEye 1	GeoEye	General Dynamics	Remote Sensing	S	S
9/28/2008	V Falcon 1	Kwajalein Island	* Flight 4	Space Exploration Technologies	Space Exploration	Development	S	S
10/24/2008	V Delta II 7420-10	Vandenberg	Cosmo-Skymed 3	Italian Space Agency (ASI)	Alenia Spazio	Remote Sensing	S	S
Europe								
4/18/2008	Ariane 5 ECA	Kourou	* Star One C2 Vinasat	Star One Vietnamese Ministry of Post and Telecommunications	Alcatel Espace Lockheed Martin Corp.	Communications Communications	S S	S S
6/12/2008	Ariane 5 ECA	Kourou	Skynet 5C	Paradigm Secure Communications Ltd.	EADS	Communications	S	S
7/7/2008	Ariane 5 ECA	Kourou	* Turksat 3A * Protostar 1 * BADR-6	Turkish Telecom Protostar Ltd. Arab Satellite Communications	Alcatel Alenia Space Space Systems/Loral EADS Astrium	Communications Communications Communications	S S S	S S S
8/14/2008	Ariane 5 ECA	Kourou	* Superbird 7 * AMC 21	Space Communications Corp. SES Americom	Mitsubishi Electric Corp. Alcatel Alenia Space	Communications Communications	S S	S S
12/20/2008	Ariane 5 ECA	Kourou	* Eutelsat W2M * Hot Bird 9	Eutelsat Eutelsat	EADS Astrium EADS Astrium	Communications Communications	S S	S S
Russia								
2/11/2008	Proton M	Baikonur	* Thor 5	Telenor A.S.	Orbital Sciences Corp.	Communications	S	S
3/14/2008	Proton M	Baikonur	* AMC 14	SES Americom	Lockheed Martin Commercial Space Systems	Communications	F	F
3/27/2008	Kosmos 3M	Plesetsk	* SAR Lupe 4	German Defense Ministry	OHB System	Intelligence	S	S
6/19/2008	Kosmos 3M	Kapustin Yar	* Orbcomm Replacement 1 * Orbcomm Replacement 2 * Orbcomm Replacement 3 * Orbcomm Replacement 4 * Orbcomm Replacement 5 * Orbcomm CDS 3	Orbital Communications Corp. Orbital Communications Corp. Orbital Communications Corp. Orbital Communications Corp. Orbital Communications Corp. Orbital Communications Corp.	OHB System OHB System OHB System OHB System OHB System OHB System	Communications Communications Communications Communications Communications Development	S S S S S S	S S S S S S
7/22/2008	Kosmos 3M	Plesetsk	UGATUSAT	UGATU	UGATU	Scientific	S	S
8/19/2008	Proton M	Baikonur	SAR Lupe 5	German Defense Ministry	OHB System	Intelligence	S	S
8/29/2008	Dnepr 1	Baikonur	* Inmarsat-4 F3 * RapidEye 1 * RapidEye 2 * RapidEye 3 * RapidEye 4 * RapidEye 5	Inmarsat RapidEye AG RapidEye AG RapidEye AG RapidEye AG RapidEye AG	EADS Astrium MacDonald, Dettwiler and Associates MacDonald, Dettwiler and Associates MacDonald, Dettwiler and Associates MacDonald, Dettwiler and Associates MacDonald, Dettwiler and Associates	Communications Remote Sensing Remote Sensing Remote Sensing Remote Sensing Remote Sensing	S S S S S S	S S S S S S
9/20/2008	Proton M	Baikonur	* Nimiq 4	Telesat Canada	EADS Astrium	Communications	S	S
10/1/2008	Dnepr 1	Dombrovskiy	THEOS	GISTDA	EADS Astrium	Remote Sensing	S	S
11/6/2008	Proton M	Baikonur	* Astra 1M	SES Astra	EADS Astrium	Communications	S	S
12/10/2008	Proton M	Baikonur	* Ciel 2	Ciel Satellite	Thales Alenia Space	Communications	S	S
Multinational								
1/15/2008	V Zenit 3SL	Odyssey Launch Platform	* Thuraya 3	Thuraya Satellite Communications Company	Boeing Satellite Systems	Communications	S	S
3/19/2008	V Zenit 3SL	Odyssey Launch Platform	* DirecTV 11	DirecTV, Inc.	Boeing Satellite Systems	Communications	S	S
4/28/2008	Zenit 3SLB	Baikonur	* Amos 3	SpaceCom Limited	Israel Aerospace Industries	Communications	S	S
5/21/2008	V Zenit 3SL	Odyssey Launch Platform	* Galaxy 18	Intelsat	Space Systems/Loral	Communications	S	S
7/15/2008	V Zenit 3SL	Odyssey Launch Platform	* Echostar XI	Echostar Communications Corporation	Space Systems/Loral	Communications	S	S
9/24/2008	V Zenit 3SL	Odyssey Launch Platform	* Galaxy 19	Intelsat	Space Systems/Loral	Communications	S	S

* Denotes a commercial payload, defined as a spacecraft which serves a commercial function or is operated by a commercial entity.

✓ Denotes a commercial launch licensed by the Federal Aviation Administration's Office of Commercial Space Transportation (FAA/AST).

L Denotes launch outcome (S-success, F-failure, and P-partial). M denotes mission outcome (S-success, F-failure, and P-partial).

2008 FAA EXPERIMENTAL PERMIT FLIGHT ACTIVITY

Date	Operator	Vehicle	Site
October 24	TrueZero	Ignignokt	Las Cruces International Airport, NM
October 24	Armadillo Aerospace	MOD 1	Las Cruces International Airport, NM
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October 25	Armadillo Aerospace	Pixel	Las Cruces International Airport, NM